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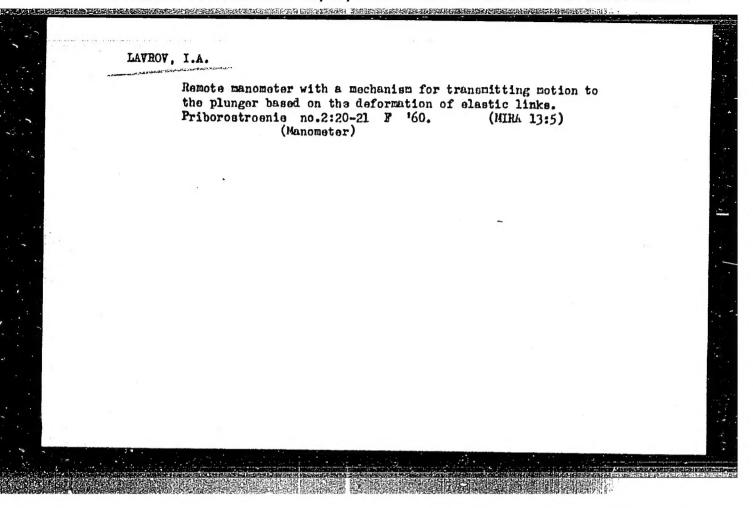
Impulse Timing Relay for Rectifying Columns

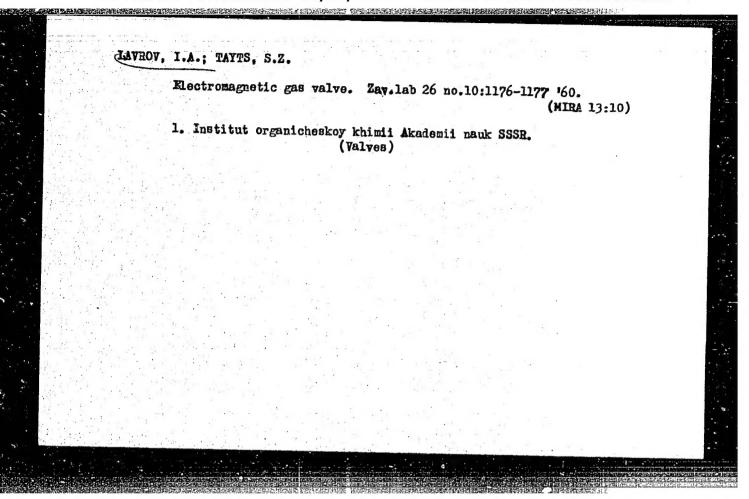
SOV/32-25-4-54/71

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

Card 2/2





S/120/62/000/001/046/061 E039/E485

AUTHORS:

Shakhovskoy, G.P., Lavrov, I.A., Pushkinskiy, M.D.

Gonikberg, M.G.

TITLE:

Apparatus for determining the compressibility of

liquids

PERIODICAL: Pribory i tekhnika eksperimenta, no.1, 1962, 181-183

The apparatus consists of a metallic sylphon bellows filled with the liquid under investigation and subjected to The change in length of the sylphon external hydraulic pressure. bellows is proportional to the change in volume of the contained A wire with high electrical liquid under the applied pressure. resistance is attached to the bottom of the bellows and slides along a contact fixed to the outer containing wall of the apparatus. By passing a current through the wire, potentiometric measurements can be made between the sliding contact and the end of the wire, hence giving a measure of the change in length of the A correction is made for the change in resistance of bellows. the wire with pressure. Data is given on the compressibility of distilled water at 0°C and compared with the results of Bridgeman Card 1/3

S/120/62/000/001/046/061 E039/E485

Apparatus for determining ...

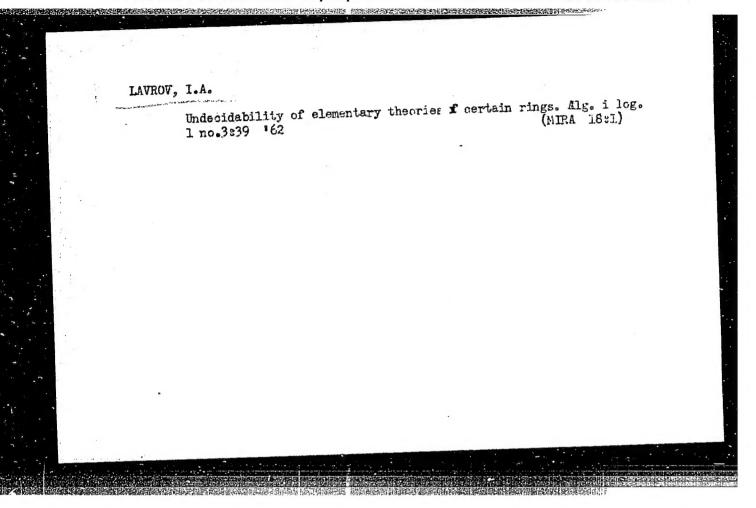
(see Table). The maximum difference between the authors' results and those of Bridgeman is 0.12%. Yu.A.Rumyantsev participated in the work. There 2 figures and 1 table.

ASSOCIATION: Institut organicheskoy khimii AN SSSR (Institute of Organic Chemistry AS USSR)

SUBMITTED: · June 15, 1961

Card 2/3

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928820017-4



LAVROV, I.A.

Effective nonseparability of a set of identically true and a set of finitely refutable formulae of some elementary theories.

Alg. i log. 2 no.1:5-18 *63 (MIRA 18:1)

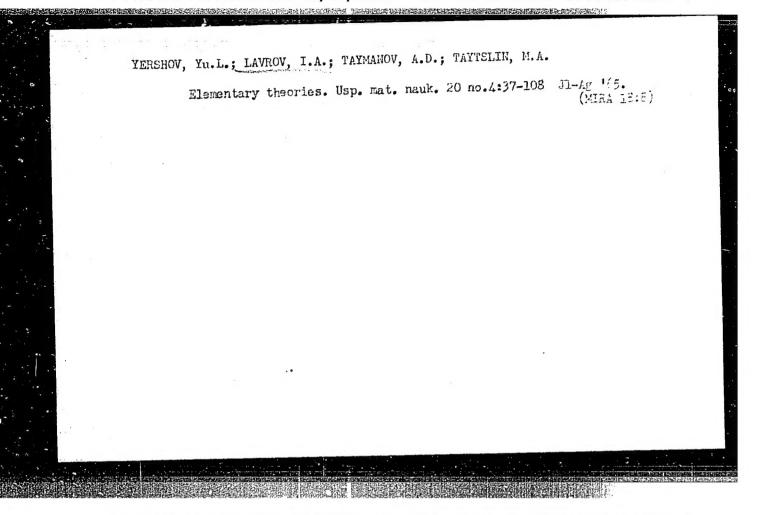
APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928820017-4"

SHAKHOVSKOY, C.P.; LAVROV, I.A.; GONIKEERG, M.G.; RUMYANTSEV, Yu.A.

Apparatus for viscosity measurements under pressure. Prib. i
tekh. eksp. 8 no.5:203-207 S-O '63. (MIRA 16:12)

1. Institut organicheskoy khimii AN SSSR.

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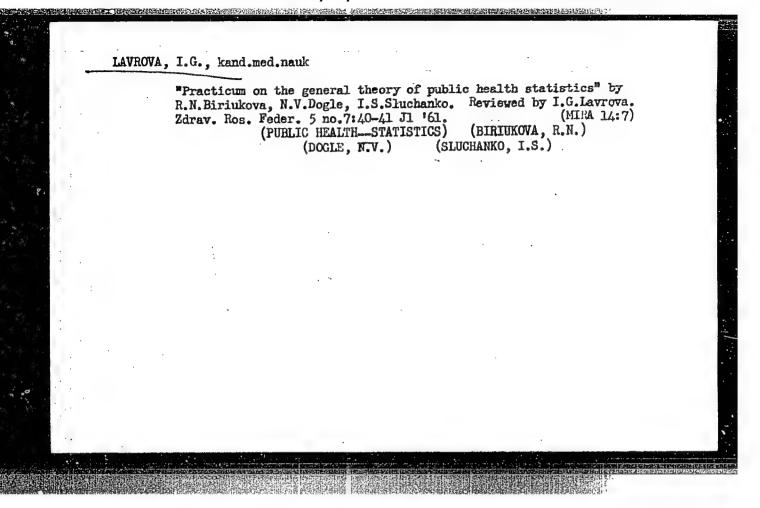
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ACC NR: AP5028506	SOURCE CODE:	UR/0286/65/00	0/020/0087/0087	
INVENTOR: Lavrov, I. A.				7
ORG: none				
TITLE: <u>Integrator fo</u> r an electr	ronic potentiometer	. Class 42, N	lo. 175718	
SOURCE: Byulleten' izobreteniy				
TOPIC TAGS: integrator, electro	onic potentiometer		. <u> </u>	
ABSTRACT: This Author Certifica ometer. The integrator is equip a scaling circuit, and an electr To increase the speed of operati	pped with a constant comechanical device	t-frequency el for controlli	ectric-pulse gen ng the scaling of	nerator,

LAVROV, I.F. (Taroslavl', ul. Chekohova, d.30, kv.17)

Perforation of the intestine by fish bones. Vest.khir. 83 no.12:
96-97 D '59. (MIRA 13:5)

1. IE E-skogo voyennogo gospitalya.
(INTESTIRES diseases)



"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928820017-4

LAVROV, I. I.

30461

Opyt izuchye niya raboty dymososa u parovozov. Trudy mosk. zlyektromyekhan in-ta inzyenyerov Z.-D. transporta im. dzyerzinskogo. Vyp. 59, 1949, S. 247-58.

SO: Ietopis' No. 34

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3/149/61/000/004/007/008 A006/A101

60211

1087, 1208,2808,1208

AUTHORS:

Sklyarenko, S. I.; Lavrov, I. I.

TITLE:

Electrolytical production of coatings with superconducting In-Tl

alloy

Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, no.4, PERIODICAL:

1961, 139-144

The In-Tl alloy, obtained until the present by the fusion of components, possesses superconductivity at low temperatures. For the purpose of obtaining thin coatings of this alloy by electrolysis, an investigation was made using a copper base, with 10 - 20 weight % Tl. Preliminary tests showed the suitability of using a bath with sulfamine acid in which indium metal and monovalent thallium sulfate (Tl2SO4) were dissolved. Polarization curves were plotted for the deposition of indium, thallium and their alloy, and for hydrogen deposition on the cathode from sulfamate baths at different concentrations of indium and thallium in the electrolyte. It was revealed that In and Tl deposition from the sulfamate bath was accompanied by the deviation of the cathode potential from the equilibrium value. This deviation was higher for indium. Higher In concen-

Card 1/3

25550

Electrolytical production of coatings ...

S/149/61/000/004/007/008 A006/A101

tration at low current densities reduced polarization, which fact indicates its concentration nature. The following optimum conditions for obtaining high quality deposits were established: 5 amp/dm² cathode current density; 50 g/l sulfamine concentration; In-Tl concentration ratio in the electrolyte: 10-40, temperature 50°C. Under the aforementioned conditions high-quality coatings with 22.6 weight % Tl at C_{In} : C_{Tl} = 10, and 12.5 weight % Tl at C_{In} : C_{Tl} = 20, were obtained. Special tests showed that higher temperatures increased the throwing power of the electrolyte. The described investigation has shown that it is possible to use the electrolytic method for obtaining thin $(1 - 12\,\mu)$ compact coatings which are super-conducting at low temperatures, like an In-Tl alloy. The coatings are resistant to corrosion in an atmosphere of high humidity and temperature. Superconductivity of the alloy was studied at the laboratory of superconducting alloys at the Institute of Physical Problems, AS USSR, under the supervision of N. Ye. Alekseyevskiy. There are 2 tables, 6 figures and 7 references: 1 Soviet-bloc and 6 non-Soviet-bloc. The reference to the most recent English-language publication reads as follows: British patent no. 799280 from Aug. 6th, 1958.

Card 2/3

\$/149/61/000/004/007/008

A006/A101

Electrolytical production of coatings ...

Moskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow

Institute of Fine Chemical Technology) Problemnaya laboratoriya

的。 1. 1985年 - 1. 198

khimii i tekhnologii redkikh i rasseyannykh elementov i poluprovodnikovykh materialov (Pilot Laboratory of the Chemistry and Techno-

logy of Rare and Dispersed Elements and Semiconducting Materials)

SUBMITTED:

ASSOCIATIONS:

November 11, 1960

Card 3/3

CIA-RDP86-00513R000928820017-4" APPROVED FOR RELEASE: 06/20/2000

35087

\$/697/61/000/000/013/018

D228/D303

18.1200

AUTHORS: Sklyarenko, S. I., Sominskaya, Z. M., Nikitina, A. A.

and Lavrov, I. I.

TITLE:

Investigating the possibility of electrolytically prepa-

ring certain rhenium alloys

SOURCE:

Akademiya nauk SSSR. Institut metallurgii im. A. A. Bay-kova. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov. Mezhduvedomstvennaya komissiya po redkim metallam. Vsesoyuznoye soveshchaniye po probleme reniya. Moscow, 1958. Reniy; trudy soveshchaniya. Mos-

cow, Izd-vo AN SSSR, 1961, 152-158

TEXT: In this study the authors' aims were (1) to prepare Re-Cu, Re-Cr and Re-Cr-Ni alloys; (2) to investigate the relationship between the alloy composition, the electrolyte composition and temperature, and the cathode current-density; and (3) to determine the optimum conditions for obtaining high-grade ppts. Their laboratory apparatus which is illustrated in a diagram, included a Se recti-

Card 1/3

Investigating the possibility ...

S/697/61/000/000/013/018 D228/D303

fier, a universal thermostat, a voltage regulator, and a vessel for keeping the electrolyte at a steady temperature. Graphs were plotted from the results of the first group of tests to show the dependence of the current yield on the cathode current-density and the concentration of ${\rm CuSo}_4$ in the electrolyte. The data suggest that a low-Cu alloy may be best prepared by electrolyzing material containing 50, 75, and 1 g/l of KReO₄, ${\rm H_2SO}_4$ and ${\rm CuSO}_4$ respectively at an electrolyte temperature of 75°C and a current density of 20 - 40 amp/dm². For an alloy with up to 36% Cu the corresponding concentrations are 200, 45, and 125 g/l, at 20°C and 1 - 2 amp/dm². The authors then consider how certain factors — the component ratio, the ${\rm H_2SO}_4$ concentration, the anode composition, etc. — influence the electropyth. of Re-Cr alloys. A deposit with 1% Cr was obtained from the electrolysis of a solution containing KReO₄ 50, ${\rm Cr}_2{\rm O}_3$ 15; $({\rm NH}_4)2{\rm SO}_4$ 40, and ${\rm H}_2{\rm SO}_4$ 75 g/l at 70 - 75°C and 100 amp/dm². The employment of a cathode of Cu plate and an anode of Pt or Pb-Sb 1s Card 2/3

S/697/61/000/000/013/018 D228/D303

Investigating the possibility ...

advised under such conditions. The effect of variations in the concentration of electrolyte components on the composition of Re-Cr-Ni alloys was then studied in a third series of experiments. It is concluded from these data that satisfactory results can be achieved at 70 - 75°C and 40 - 80 amp/dm² with a bath of the following composition: KReO₄ 10-50, Cr₂O₃ 10-25, NiSO₄ 40, (NH₄)₂SO₄ 40, and Position: KReO₄ 40, (NH₄)₂SO₄ 40, and Position: KReO₄ 40, and Position: KReO₄ 40, and Position: KReO₄ 40, and Position: KReO₄ 40, and Posit

Card 3/3

1 1860

4/006/008/020

AUTHORS:

Skiyar-nko, S.I., Lavrov, I.I., and Shamagin, Yu.P.

TITLE:

Electrolytic production of rhenium coatings from aquedus solutions using alternating current

PERIODICAL: Zaurter prikasansy ka.mii, v. 34, no. 6, 190],

PhAT: Horozanie is hore to exciter works on the use of an a.s. turrent in the electrone position of metals (Ref. 1: G.T. Bakhva-From the electrode position of metals (Ref. 1: G.T. behave-aby, Trady victly sectyancy kenterents if po teoreticheskey is printed by electrokammic lock AN USSR, Kiev, 1949); (Ref. 2: N.N. Broiket shi L.Ya. Bozorsi, Inform tekhn. listok, LDNTF, no. 65, 1956); (Ref. 3: N.N. Brother, Parkey, 1958) and to the introduc-perementary polyamost, Masagir, L. J. 1958) and to the introduc-tion in thisstrial official (Ref. 5: G.F. Bakhvalov, Vesta, Inch. 1 tekhn. 1. 1953); (Ref. G. L.Ya. Economic Inform. tekhn. 11stok. i tekhn., 4, 1953). (Ref. 9: L.Ys. Bogoral. Inform. tekhn. listok, LDNTP, 1957, nc. 37). The present paper gives reports of studies

Card 1/6

21,006 \$/080/61/034/096/098/020 D247/D305

Electrolytic production of ...

on the effect of a.t. on electrolytic formation of Re abatings from aqueous solutions, including the effect of direct and alternating current density of bathode (t_k) and anode (t_a) periods, and the ratio of t_k/t_a on the indices of electrolysis, and properties of he coatings. Experiments were made with parallel a.c. and d.c. currents, the cathode current density of the d.c. current being 80-100 a/dm². The electrical circuit is shown. It was established that a.c. current density should be one-half that of the d.c. current. Current efficiency was calculated by the method of Bibikov (def. 3: Op.cit.). Experimental data related to the effect of current density on electrolytic indices are shown in Table 1. The use of alternating current is shown to improve the quality of the coating and to increase current by approximately 1.5-fold. It also reduces the bath voltage. The microstructure of the Re coating is also shown. The t_k/t_a ratio has a considerable influence on the quality of deposition. Electrolysis carried out at 18-20°C, with d.c. current density of 140 A/dm² and a.c. of 70 A/dm² was comparred. The effects of the ratio t_k/t_a are shown. The optimum value

Card 2/6

Electrolytic production of ...

24,006 \$/080/61/034/006/008/020 D247/D305

of the ratio is from 3 to 5, giving a good shiny coating with current efficiency of 18-20 %. Temperatures between 20-60°C show no marked effect on deposit quality but, above 60°C, the quality tends to deteriorate. Dispersability of the electrolyte was determined in a rectangular bath with a glass screen and calculated

$$T = \frac{(K - \frac{M_n}{M_f})}{K + \frac{M_n}{M_f} - 2} \cdot 100,$$

where T is the dispersability of the electrolyte (%), K - initial current distribution (=2), $M_{\rm n}$ - weight of coating on near cathode, $M_{\rm f}$ - weight of coating on far cathode (in g). The effect is shown of current density on dispersability of electrolyte with a $t_{\rm k}/t_{\rm g}$ ratio of 5.2. Fig. 4 shows the influence of this ratio on dispersability for optimum current density and electrolyte temperature and

Card 3/6

21,006 S/080/61/034/006/008/020 D247/D305

Electrolytic production of ...

indicates that dispersability reached a maximum with $t_k/t_a=6$. There are 1 figures, 3 tables and there are 11 references: 7 Soviev-bloc and 4 non-Soviet-bloc.

SUBMITTED: May 20, 1960

Table 1. Effect of current density on electrolysis indices with alternating current using an electropneumatic control device. Coating thickness 10-12.

Legend: A - direct current; B - alternating current; C - current density (A/dm²); D - voltage; E - external appearance of coating; F - current efficiency (%); G - current density (A/dm²); H - voltage; I - external appearance of coating; J - current efficiency (%); K - d.c.; L - a.c.; M - d.c.; N - a.c.; O - shiny; P - matte; Q - shiny.

Card 4/6

24006 5/080/61/034/006/008/020 D247/D305

Electrolytic production of ...

Table 1 (Cont'd).

тавлица 1

Влияние плотности тока на показатели процесса:

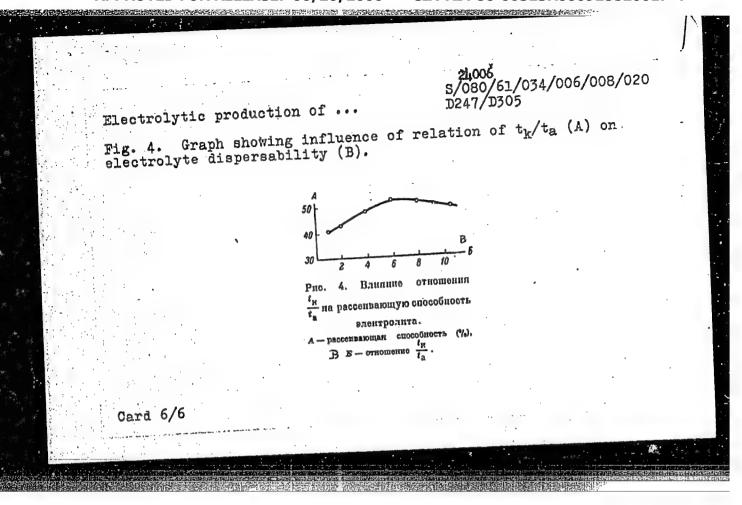
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Card 5/6

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928820017-4"



34138

1.1600

S/149/62/000/001/005/009 A006/A101

AUTHORS:

Sklyarenko, S. I., Lavrov, I. I., Shamagin, Yu. P.

TITLE:

The use of current of alternating polarity in the electrolytic production of rhenium powder

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, no. 1, 1962, 111 - 114

TEXT: It was attempted for the first time to produce electrolytical rhenium powder for the manufacture of compact metal, with the aid of current of alternating polarity. The bath contained in g/l: potassium perrhenate 50; ammonium sulfate 30 - 40; concentrated sulfuric acid 40 - 75 (specific weight 1.84). A tantalum plate was employed as a cathode and platinum as an anode. As a result of preliminary experiments the following optimum conditions of electrolysis were established: density of current of direct polarity - 100 amp/dm²; density of current of reverse polarity - 50 amp/dm²; electrolyte temperature 75°C. The process was conducted on a laboratory unit with flowing electrolyte. It was simplified by the use of a commanding electro-pneumatic device for reverse current. The authors studied, furthermore, the effect of the ratio of the cathode

Card 1/1) Z

34138 \$/149/62/000/001/005/009 A006/A101

The use of current of ...

and anode period duration, varying from 2 to 8, on the properties and the quality of the powder. The metal yield per current was calculated by N. N. Bibikov's

formula: $\eta = \frac{26.8 \text{ m n}}{\text{M} \left(\text{I}_{\text{dir}}, \, t_{\text{c}} - \text{I}_{\text{rev}}, \, t_{\text{a}}\right)}$ 100%, where m is the metal weight on the cathode, in g; 26.8 is the Faraday number, in amp-hour; n - metal valence; M - the atomic weight of the metal; I_{dir} , and I_{rev} , the intensity of current of direct and reverse polarity, in amps; t_{c} and t_{a} the duration of the cathodic and anodic and reverse polarity, in amps; t_{c} and t_{a} the duration of the cathodic and anodic period, in hours. The rhenium powder obtained with the aid of current of alternating polarity, shows higher dispersity and improved cermet properties than a powder obtained with electrolysis on d-c. There are 1 figure, 2 tables and 5 references, 3 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow Institute of Fine Chemical Technology) Kafedra khimii i tekhnologii redkikh i rasseyannykh elementov (Department of Chemistry of Rare and Dis-

persed Elements)

SUBMITTED: March 8, 1961

Card 2/1 2

30%

\$/149/62/000/002/008/008 A006/A101

K. NOO

Sklyarenko, S.I., Lavrov, I. I., Yakobson, S. V.

TITLE:

Electrolytic deposition of tin-germanium and antimony-germanium

alloys

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya,

no. 2, 1962, 129-134

The authors studied the possibility of deposition of germanium as TEXT: an alloying admixture combined with the production of coatings with binary Sn-Ge and Sb-Ge alloys. The coatings were deposited on a copper foil; graphite was employed as an anode. The authors studied the effect of germanium concentration in the electrolyte, cathodic current density and electrolyte temperature on the current efficiency and the basic indices of the process. The following conditions were established assuring the production of high-quality coatings. To obtain coatings with Sn-Ge alloy the authors recommend an electrolyte containing in g/1: 90 NaOH, 0.45 - 4.5 Ge in the form of GeO₂, 45 Sn (in the form of tetrachloride salt); $D_0 = 0.5 - 1.5 \text{ amp/dm}^2$; $t = 65^{\circ}\text{C}$. Under these conditions high quality tin-germanium coatings up to 8 µ thick are obtained, containing

Card 1/2

S/149/62/000/002/008/008 A006/A101

Electrolytic deposition of tin-germanium ...

10 - 51 weight \$ Ge. The current efficiency is 16 - 17%. The throwing power of the electrolyte attains 72%. For coatings with Sb-Ge alloys containing 1 - 12 weight \$ Ge the electrolyte should contain in g/1: 180 NaOH, 100 Na₂S, 2 - 10 Ge, 10 Sb. Current density from 0.25 - 2 amp/dm², and 40 - 60°C temperature are recommended. Maximum thickness of the coating is 6 - 7 \(\mu\) and the throwing power of the electrolyte attains 87%. The coatings showed high corrosion resistance in various media. There are 2 tables, 6 figures and 6 references: 4 non-Soviet-bloc and 2 Soviet-bloc.

ASSOCIATIONS: Moskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow

Institute of Fine Chemical Technology); Kafedra tekhnologii redkikh i rasseyannykh elementov (Department of the Technology

of Rare and Dispersed Elements)

SUBMITTED:

July 10,1961

Card 2/2

S/137/62/000/006/067/163 A052/A101

AUTHORS:

Sklyarenko, S. I., Sominskaya, Z. M., Nikitina, A. A., Lavrov, I. I.

TITLE:

An investigation of possibility of electrolytic production of some

rhenium alloys

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 29, abstract 6G222

(In collection: "Reniy", Moscow, AN SSSR, 1961, 152 - 158)

TEXT: The possibility is proved of producing binary alloys of Re with Cu and Cr and also with Cr and Ni by means of aqueous solution electrolysis. The dependence of the quality and composition of the alloy on the concentration of components in electrolyte, $D_{\rm c}$ and temperature of electrolyte has been studied. Optimum conditions of producing high-quality alloy deposits are: 1. For Re-Cu alloy the bath composition (in g/1): CuSO4 125, H2SO4 (strong) 45, NaReO4 200; $D_c = 1 - 2 \text{ a/dm}^2$, the temperature of electrolyte 20° C, Re content in the alloy 2.4% by weight; current efficiency ~100%. 2. For Re-Cr alloy the bath composition (in g/1); KReO₄ 50, CrO₃ 15, (NH₄) $_2$ SO₄ 40, H₂SO₄ (strong) 75; D_c = 100 a/dm², the temperature of electrolyte 70 - 75°C, Cr content in the alloy reaches 1%.

Card 1/2

An investigation of ...

S/137/62/000/006/067/163 A052/A101

3. For the alloy of Re with Cr and Ni the bath composition (in g/l): KReO $_{4}$ 10 - 50 CrO $_{3}$ 10 - 25, NiSO $_{4}$ 50 - 120, (NH $_{4}$) $_{2}$ SO $_{4}$ 40, H $_{2}$ SO $_{4}$ (strong) 75; D $_{c}$ = 40 - 80 a/dm², the temperature of electrolyte 70 - 75 $^{\circ}$ C. Current efficiency 60%.

G. Svodtseva

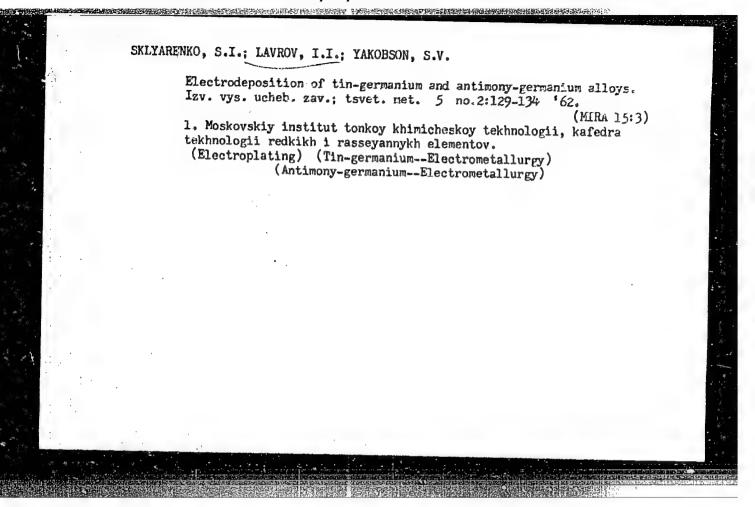
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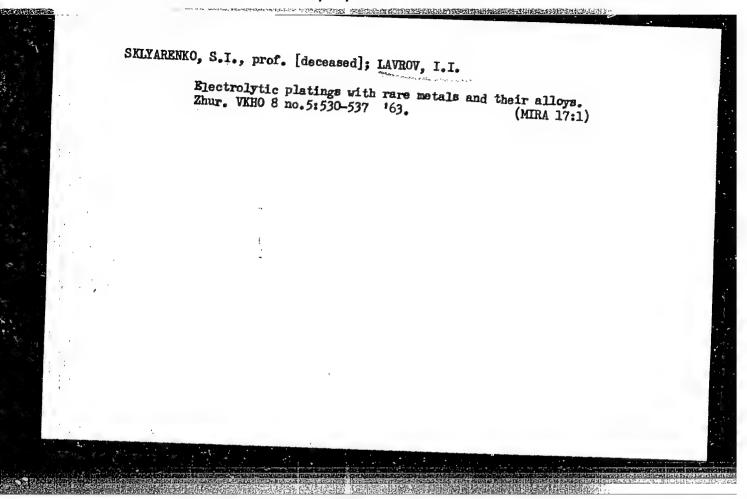
Card 2/2

SKLYARENKO, S.I.; LAVROV, I.I.; SHAMAGIN, Yu.P.

Using currents of alternating polarity in the electrolytic preparation of rehenium powder. Izv.vys.ucheb.zav.; tsvet.met. 5 no.1:111-114 '62. (MIRA 15:2)

表示是否是表演的表現的,但如此也是他的特別的性質的性質的可以可以可以





"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928820017-4

LAVROV, I. I.

Peat Industry

Automatic grip for a track-layer. Torf. prom 29 no. 5, 1952.

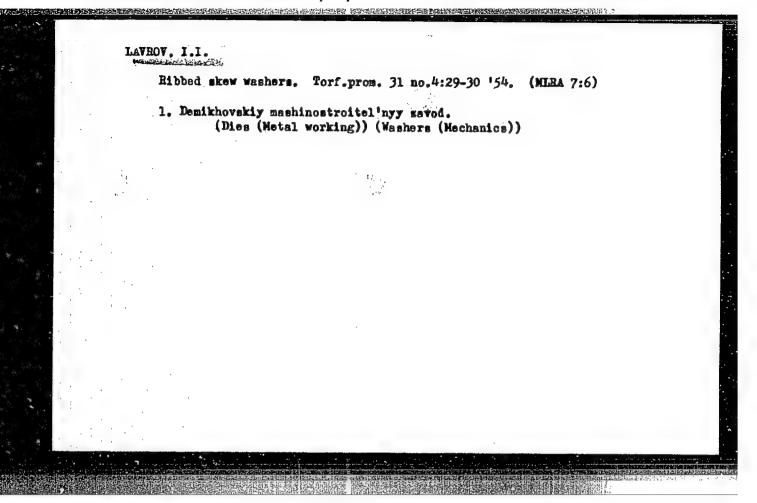
MONTHLY LIST OF RUSSIAN ACCESSIONS. Library of Congress, August, 1952. UNCLASSIFIED.

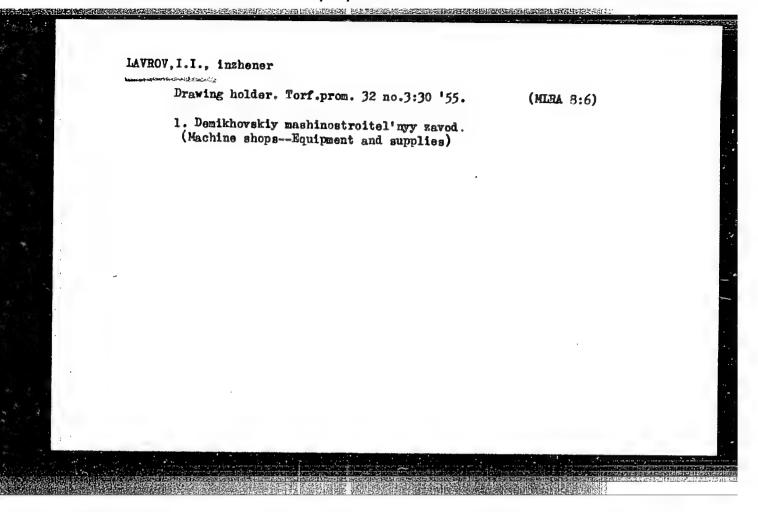
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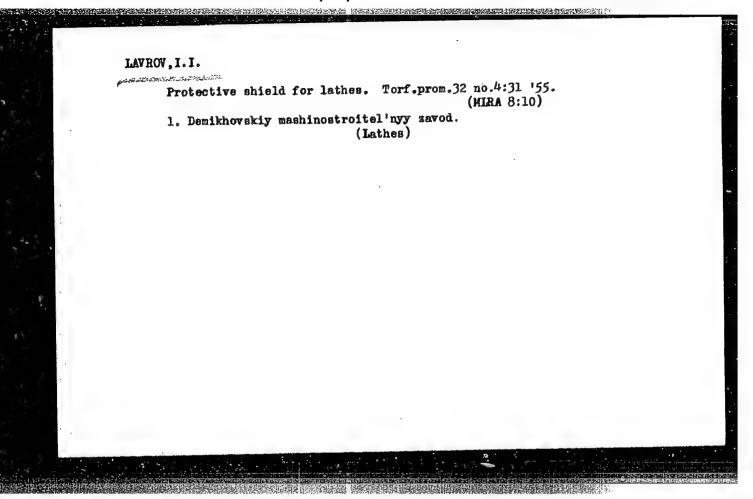
Stable equilibrium of sections during tracklaying. Torf.pron. 30 no.8:
(HEA 6:7)

1. Demikhovskiy zavod.

(Railroads--Track)







LAVROV, I.K.; ZONOV, G.B.

Distribution and number of the field vole Microtus reconomus in Irkutsk Province. Dokl. Irk. gos. nauch.-issl. protivechum. inst. no.52115-116 *63 (MIRA 1821)

LAVROV, I.N. (Moskva I-90, Troitskaya ul., d.8, kv.25-a)

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Classification of fractures of the fundus of the trochanteric fossa and central dislocations of the hip. Ortop., travm.i protes. 22 no.3:18-22 '61. (MIRA 14:4)

1. It 2-y kliniki (rukovoditel' kliniki - prof. B.A. Petrov, rukovoditel' raboty - d-r med.nauk I.I. Sokolov) Instituta im. Sklifosovskogo (dir. - zasluzh. vrach USSR M.M. Tarasov). (HIP JOINT-FRACTURE)

LAVROV, I.N.

Mechanism of fracture formation of the trochanteric fossa and central dislocation of the hip. Khirurgiia 39 no.5:20-25 My '63. (MIRA 17:1)

1. Iz 2-y travmatologicheskoy kliniki (rukovoditel - prof. I.I. Sokolov) Moskovskogo gorodskogo nauchno-issledo-vatel skogo instituta skoroy pomoshchi imeni N.V. Sklifo-sovskogo (dir. - zasluzhennyy vrach UkrSSR M.M. Tarasov).

LAVROV Y. P.

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5, 15-57-5-6835

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p 159 (USSR)

AUTHORS:

Shneyerson, B. L., Lavrov, I. P.

TITLE:

An Experiment of Applying a Detailed Gravimetric Survey in the Region of the Kuzbas (Opyt primeneniya detal'noy

gravimetricheskoy s"yemki v rayone Kuzbassa)

PERIODICAL:

Prikl. geofizika, Nr 15, 1956, pp 103-108.

ABSTRACT:

In 1953 an experimental-type detailed gravimetric survey of high precision was made over the Borisovskaya struktura (structure) in the northeastern part of the Kuznetsk Basin on the western slope of the Krapivenskoye uplift. The measurements were made by two SN-3 quartz gravimeters along four east-west profiles, intersecting the strike of the rocks in the crestal part of the southern uplift of the Borisovskaya structure. distance between the profiles was 0.5 km, and the

Card 1/2

station spacing along the profiles was 250 m. At most

An Experiment of Applying a Detailed Gravimetric Survey (Cont.)

points four readings were made on separate traverses. The measurements of Δg are shown graphically along each of the four profiles. A local positive anomaly amounting to about three milligals is observed on each profile against the background of a regional increase in gravity. This small anomaly corresponds to the crest of the Borisovskaya structure. An agreement is observed between the derived curve of Δg and the slope angle of the flanking horizons on the western and eastern limbs of the uplift. An attempt is made to evaluate approximately the position of the disturbed mass as affected by the local anomaly of the Borisovskaya structure. Card 2/2

LAVROV, I.S.

Flocculation in the electrophoretic deposition of carbonate suspensions [with summary in English]. Koll.zhur. 23 no.4: 423-427 Jl-Ag '61. (MIRA 14:8)

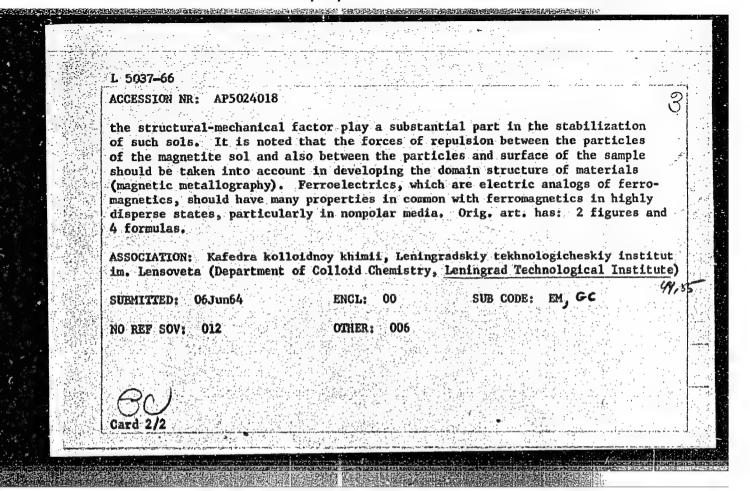
 Leningradskiy tekhnologicheskiy institut im. Lensoveta. (Flocculation) (Electrophoresis)

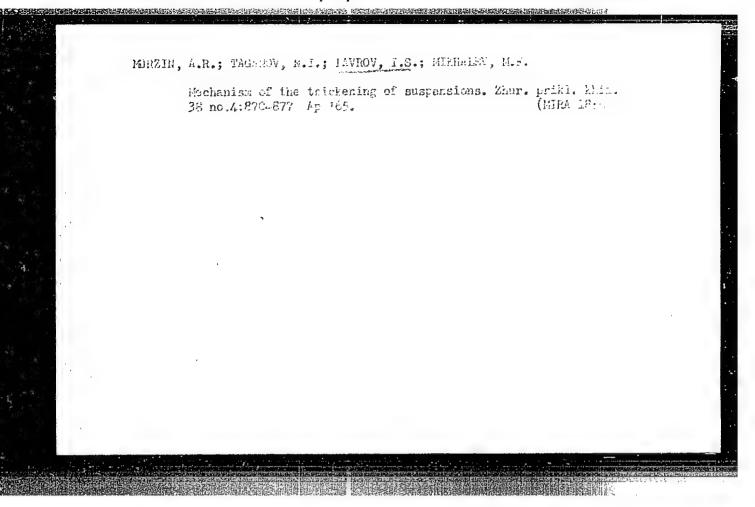
BIBIK, Ye.Ye.; LAVROV, I.S.

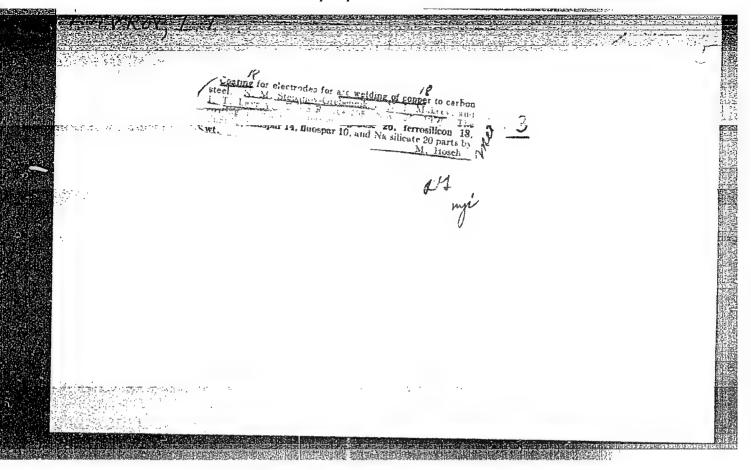
Magnetooptical effects in magnetite sol. Koll. zhur. 26 no.3: 391-392 My-Je '64. (MIRA 17:9)

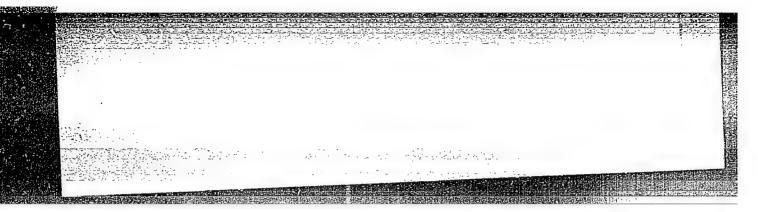
1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra kolloidnoy khimii.

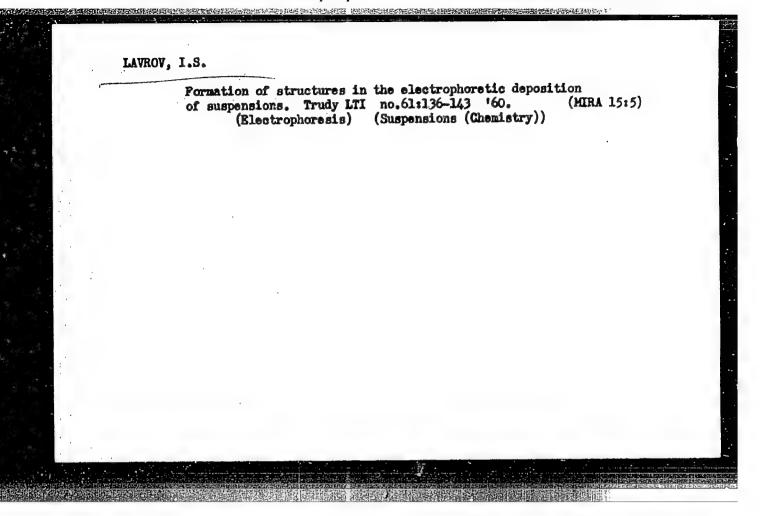
1. 5037-66 EWT(1) IJP(c) ACCESSION NR: AP5024018 UR/0069/65/027/005/0652/0655 541.182:538.114 AUTHOR: Bibik, Ye. Ye.; Lavrov, I. S. TITLE: Stability of dispersions of ferromagnetics SOURCE: Kolloidnyy zhurnal, v. 27, no. 5, 1965, 652-655 TOPIC TAGS: ferromagnetic material, chemical dispersion, ferroelectric material ABSTRACT: The authors analyze the dependence of the stability of disperse ferromagnetic systems on the energy of magnetic particle attraction in the light of the Deryagin-Landau stability theory (V. B. Deryagin, L. D. Landau, Zh. eksp. i teoret. fiziki 2, 802, 1941; 15, 662, 1945) and of reported experimental data. The magnetic interaction between the particles has a considerable effect on the stability of such dispersions. The contribution of the magnetic interaction to the total balance of interparticle forces depends on the particle size. By applying an external magnetic field, one can vary the energy of attraction of the particles over a wide range. A comparison of the various components of the particle interaction in magnetite sols indicates that particle solvation and Card 1/2











ACCESSION NR: AP4037180

8/0069/61/026/003/0391/0392

AUTHOR: Bibik, Ye. Ye.; Lavrov, I. S.

TITLE: Magneto-optical effects in magnetite sol

SOURCE: Kolloidnyy zhurnai, v. 26, no. 3, 1964, 391-392

TOPIC TAGS: magnetite sol, magnetic field effect, magneto optical effect, aggregate formation, interparticle potential barrier, optical property, extinction coefficient, sol stability, determination, transparency

ABSTRACT: An investigation was made into the effect of a magnetic field on transparency of magnetite suspensions. Under the action of the magnetic field, thread-like aggregates are formed in an Fe₃O₁ sol. At field intensities up to 40,000 amp/m, this association causes an increase in the extinction coefficient along the direction of the lines of force of the field according to Rayleigh's law, owing to retention of their interparticle potential barriers. When the magnetic field is shut down the sol relaxes and completely recovers its initial optical properties due to the breaking up of the associations to individual particles. This effect indicates a new method for studying the stability of sols. It

Card 1/2

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ACCESSION NR: AP4037180

was found that with a particle size less than 2000A in a field up to 25,000 amp/m, the transparency increases (aggregation has not started) along the lines of force in a stable sol. In this case, the repulsive energy of the particles exceeds the energy of their magnetic dipole reaction. An addition of 150-200 millimoles, if ter of NaCl causes the formation of aggregates under the action of a magnetic field. During the first 2-3 minutes after adding sufficient electrolyte to the sol to cause congulation in 3-5 minutes, partial relaxation is promoted by the action of the magnetic field. Orig. art. has: no graphics.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensovyeta, Kafedra kolloidnoy khimii (Leningrad Technological Institute, Department of Colloidal Chemistry)

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ENCL: 00

SUB CODE: IC, EM

NO REF SOV: 001

OTHER: 005

Cara 2/2

US YAROV, O.G.; LAVROV, I.S.; YEFREMOV, I.F.

Compacting of sediments in a static electric field. Koll. zhur. 27 no.5:787-788 S-0 '65. (MIRA 18:10)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

SARYLOVA, K.P., dotsent; TOTOCHENKO, V.K.; LAVROV, I.V.; BOCOMOLOVA, N.I. KUROV, V.D. Clinical aspects of hemorrhagic capillarotoxicosis in children. Pediatriia no.4:55-58 Jl-Ag '55. (MLRA 8:12) 1. Iz fakul'tetskoy detskoy kliniki II Moskovskogo meditsinskogo instituta (zav.-prof. P.A.Ponomareva) (PURPURA, MONTHROMBOPENIC, in infant and child)

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- Filonenko, Nina Yevgen'yevna and Lavrov, Igor' Veniaminovich
- Petrografiya iskusstevennykh abrazivov (Petrography of Synthetic Abrasives) Moscow, Mashgiz, 1958, 90 p. 2,000 copies printed.
- Reviewer: Karlin, V.V., Candidate of Technical Sciences; Ed.:
 Nikogosyan, Kh. S., Candidate of Technical Sciences; Ed. of
 Publishing House: Borodulina, I.A.; Tech. Ed.: Sokolova, L.V.;
 Managing Ed. for literature on machine-building technology
 (Mashgiz, Leningrad Division): Naumov, Ye. P., Engineer.
- PURPOSE: This book is intended for engineers, technicians, and scientific personnel whose work is concerned with the production of abrasives, refractories, electrical equipment, and cutting tools.
- COVERAGE: The book deals with the phase composition and structure of abrasive materials and cutting tools and with the physical and chemical basis of their production. The materials described are: Card 1/5

600 Petrography of Synthetic Abrasives common and white electrocorundum, monocorundum, silicon carbide, and boron carbide. The authors have attempted to gather together into one small volume information which hitherto has been available only in scattered magazine articles. There are 77 references, of which 57 are Soviet, 10 English, 9 German, and 1 French. No personalities are mentioned. TABLE OF CONTENTS: Preface Ch. I. General Information on Abrasives 1. Natural and synthetic abrasive materials 2. The abrasive tool and its characteristics 3. The role of microscopic investigations in the pro-8 duction of abrasives 99 Common Electrocorundum 4. Physical and chemical basis of the production process Structure of a block of common electrocorundum 13 5. Structure of a block of common electrocorundum
6. Mineralogical and chemical composition of electro-13 corundum in various parts of the block 7. Characteristics and certain properties of minerals 17 composing common electrocorundum Card 2/5

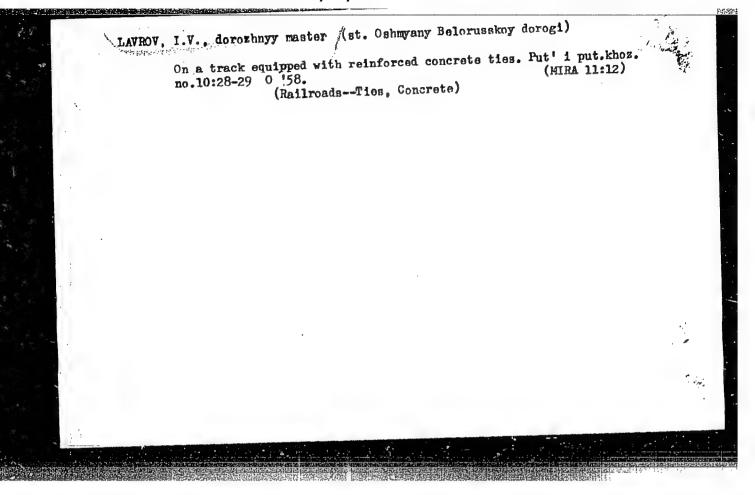
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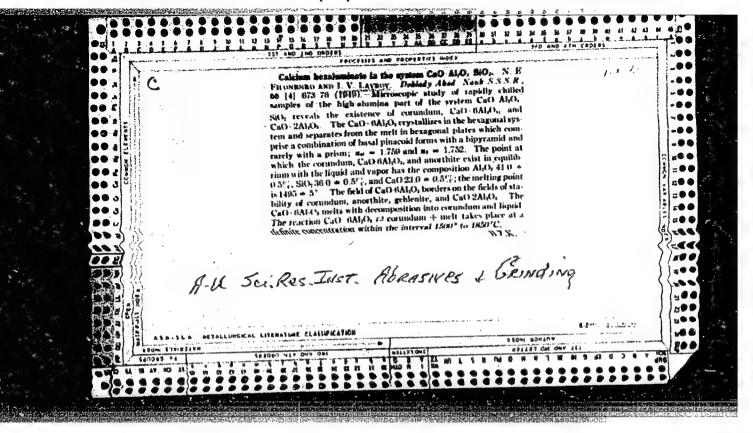
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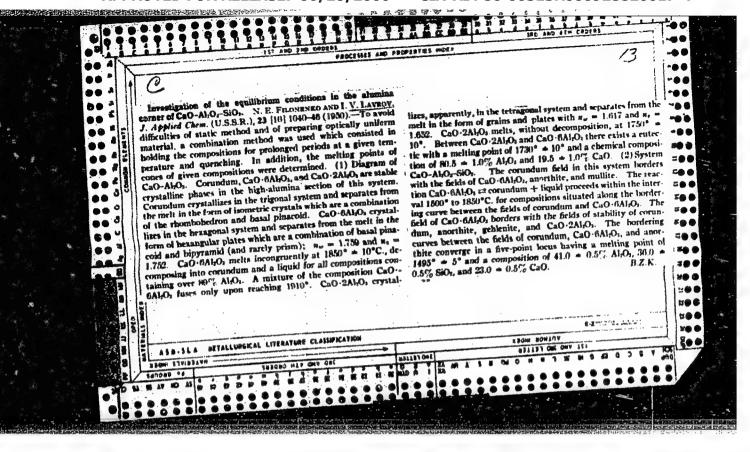
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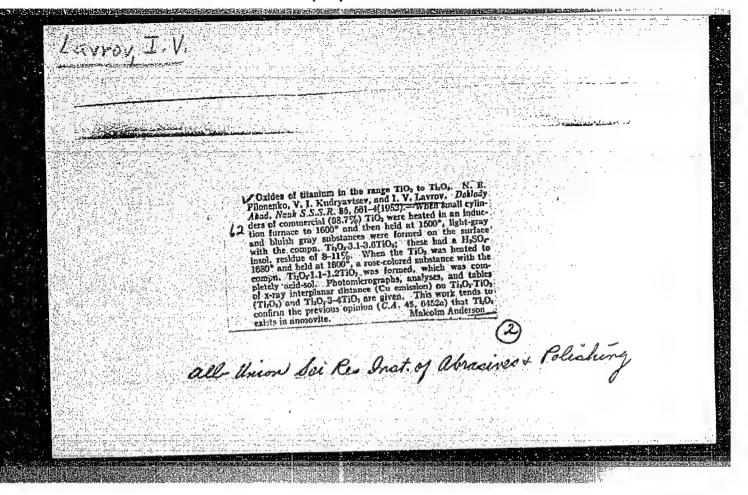


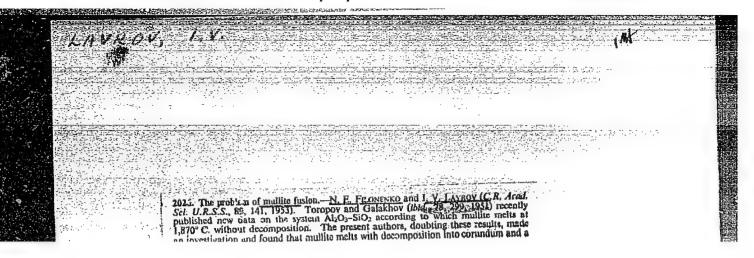


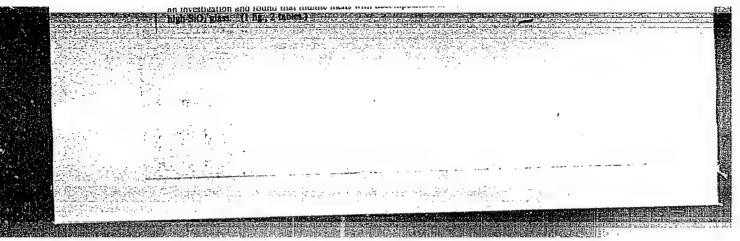
"APPROVED FOR RELEASE: 06/20/2000

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LAVROV, I. V.

Dissertation: "Investigation of the Alumina Portion of the System Na₂O - Al₂O₃ - SiO₂."
Cand Chem Sci, Leningrad State U, Leningrad, 1954. Referativnyy Zhurnal--Knimiya, Hoscow, No 14, Jul 54.

SO: SUM No. 350, 25 Jan 1955

LAUROV, I. V.

20-3-45/59

AUTHORS:

Filonenko, N.Ye., Lavrov, I. V., Andreyeva, S. V., Pevzner, R. L.

TITLE:

Note on Alumina Spinel AlO.AL203 (O glinozemistoy shpineli

Alo.Alpo3).

PERIODICAL: Doklady Akademii Nauk, 1957, Vol. 115, Nr 3, pp. 583-585 (USSR).

ABSTRACT:

On the occasion of the microscopic investigation of the reduction products of the components of a layer with a high content of alumina the authors found a corundum resorption with the formation of a vitreous isotrope phase, if the reduction was effected by solid carbon (for the production of electro-corundum) (Light diffraction in some granules 1,77-1,80). This phase displays a lattice, the parameter of which is close to that of alumina, but differs from it by its higher diffraction (higher than corundum). This phase is produced as a result from the solution of corundum and is consistent at 1900°C. These facts justify the assumption, that the interaction of corundum with carbon follows the reaction. 3 Al₂O₃ + C = 2 Al₃O₄ + CO. For control purposes

a synthesis was accomplished. Samples synthetisized at 1500°C were black, at 1600°C and above they were white and contained no corundum, but consisted almost entirely of the isotrope phase. At 1600°C it is

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Note on Alumina Spinel AlO.Al203.

20-3-45/59

formed by isometrical granules about 2-4 Å in size. In addition to that, it contains aggregates of microlithes with a high light diffraction and double refraction. At 1700°C there appeared, besides isometrical granules of the isotrope phase, recristallized parts, 6-lop in size, of the phase with irregular form with numerous gas inclusions. At 1750°C this layer is sintered into a uniform mass with many gas bubbles. No crystals are visible. At 1800°C the structure changes instantaneously. The sample consists of isometrical crystals of the isotrope phase 60-loo Å in size. In between a small amount of very fine foils of an unknown phase were found. The chemical analysis brought out for samples produced at 1600°C:-ALO-1,26Al₂O₃, at 1700°C:

Alo.1.21. Al₂0₃ and at 1750°C: Al.1.06 Al₂0₃. X-ray analysis showed the composition to consist of a single phase (sample at 1600°C), its lattice parameter a = 7,92Å. The spectral analysis showed very clearly, that aluminium is represented only by the brightest lines Al 3082,16 and the doublet Al 3092,7, Al 3092,8 in the y - spectra of alumina and corundum. These lines are much more intensive in the spinel spectrum than in the case of alumina and corundum, and there occur 6 other lines, which are characteristic for reduced aluminium. All these facts can be explained, apparently, by a weaker combination between Al and 0 in the

Card 2/3

Note on Alumina Spinel Allo.All203.

20-3-45/59.

spinel than in the γ - alumina and in the corundum. Hence, a spinel of the given composition was synthetized by the interaction of alumina with solid carbon in the range from 1600-1800°C, displaying a very high melting point (1980-1990°C), a high mirohardness (H = 2070 kg/mm²) and good chemical resistivity. There are 4 figures (in one table).

ASSOCIATION: All-Union Scientific Research Institute for Abrasives and Grinding (Vsesoyuznyy nauchnowissledovatel'skiy institut abrazivov i shlifovaniya).

PRESENTED: By D. S. Korzhinskiy, Academician., March 12, 1957.

SUBMITTED: March: 12, 1957.

AVAILABLE: Library of Congress.

Card 3/3

LAVROV, I. V.

"Analysis of the Alumina Component in the Na₂0 - Al₂0 $_3$ - Si0 $_2$ System" p. 462

Transactions of the Fifth Conference on Experimental and Applied Mineralogy and Petrography, Trudy ... Moscow, Izd-vo AN SSSR, 1958, 516pp.

reprints of reports presented at conf. held in Leningrad, 26-31 Mar 1956. The purpose of the conf. was to exchange information and coordinate the activities in the fields of experimental and applied mineralogy and petrography, and to stress the increasing complexity of practical problems.

5(1,2) AUTHORS:

Filonenko, N. Ye., Lavrov, I. V., Andreyeva, S. V.

SOV/20-124-1-44/69

TITLE:

On the Aluminum Oxycarbides (Ob oksikarbidakh alyuminiya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 1, pp 155-158

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(USSR)

ABSTRACT:

The solid production by synthesis of the substances mentioned in the title by an immediate interaction of alumina with carbon is of interest for the industry using corundum material (refractory or grinding material). The authors carried out the synthesis in order to investigate those problems and also to determine the optical properties of the Al-oxycarbides. Batches were produced basing upon the process of the following reactions:

(1) $3Al_2O_3 + C = 2Al_3O_4 + CO$ (C-content 4%);

(2) $2Al_2o_3 + 3C = Al_4o_4C + 2CO$ (C-content 15%);

(3) $Al_2O_3 + 3C = Al_2OC + 2CO (C-content 26%)$.

Card 1/3

The components were: highly disperse (2 - 0 / m) / -alumina and mineral oil coke (grains 50-0 / m).

On the Aluminum Oxycarbides

SOV/20-124-1-44/69

The briquets produced from them were subjected to a heat treatment in the "Tamman" furnace at 1500-19000 for up to 3.5 hours. The loss of weight suffered during the reaction was recorded (Fig 1). A microscopic analysis according to the immersion method was then carried out in polished sections (Figs 2,3) and a chemical analysis in some cases. Properties of the determined aluminum tetra and monoxycarbide are described. The comparison of the results of chemical and microscopic analysis as well as the loss in weight of briquets prove that spinel is the first product of interaction of alumina with solid carbon; this being independent of the carbon content in the batch. The composition of the final products corresponds to the reactions (1), (2) and (3). Thus, it was proved that Al₄O₄C and Al20C can be synthesized not only from the liquid phase by crystallization of the Al₂O₃-Al₄C₃ melts (Ref 1) but also in the solid phase between 1700 and 1850° from alumina and carbon.

Card 2/3

On the Aluminum Oxycarbides

SOV/20-124-1-44/69

There are 3 figures, 1 table, and 2 Soviet references.

ASSOCIATION: Vseseyuznyy nauchno-issledovatel skiy institut abrazivov i

shlifovaniya

(All-Union Scientific Research Institute of Abrasives and

Grinding)

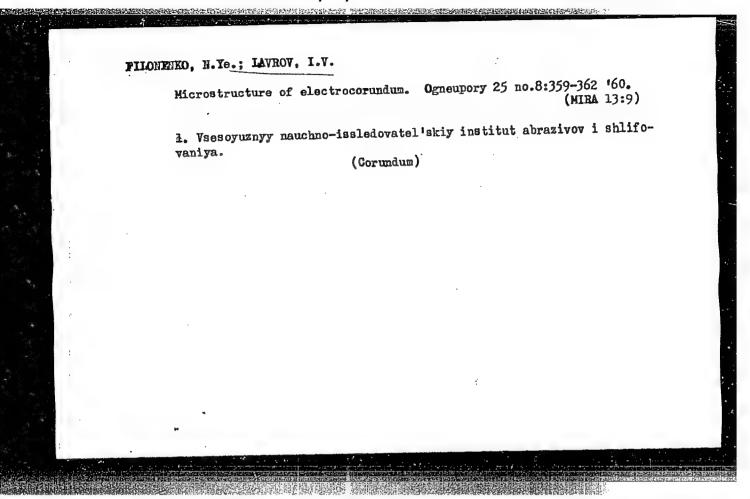
PRESENTED:

July 23, 1958, by D. S. Korzhinskiy, Academician

SUBMITTED:

July 29, 1958

Card 3/3



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LAVROV, K. A.

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LAVROV, K. A. Sinapsy spinnogo mozga. Trudy Akad. med. nauk SSSR, T.

III, 1949, S. 140.

SO: Letopis, Mo. 32, 1949.

LAVROV, K. A.

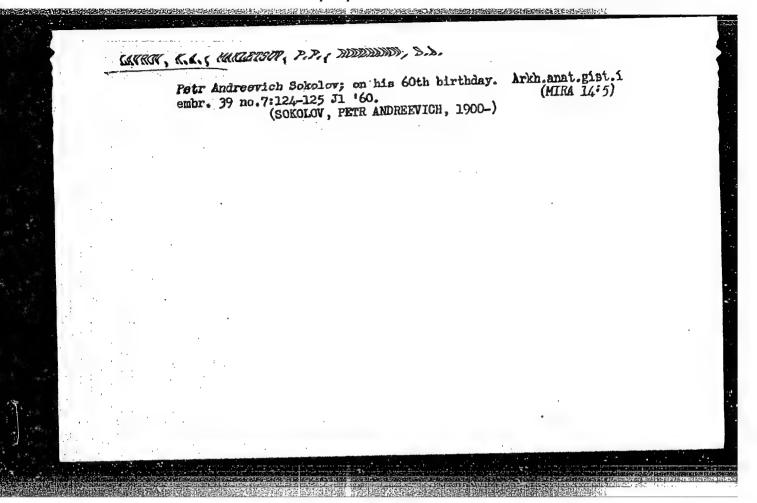
24278

LAVROV, K. A. Transplantatsiya nervnoy tkani v perednyuyukameru glaza.
(Eksperim.-Cistol. Dannyye). Trudy Akad. med. nauk SSSR. T. III, 1949,
S. 171-172.

SO: Letopis, No. 32, 1949.

LAVROV, K. A. Ostrukture mickarda. Trudy Akad. med. nauk SSSR, T. III, 1949, S. 223-24.

SO: Letopis, No. 32, 1949.

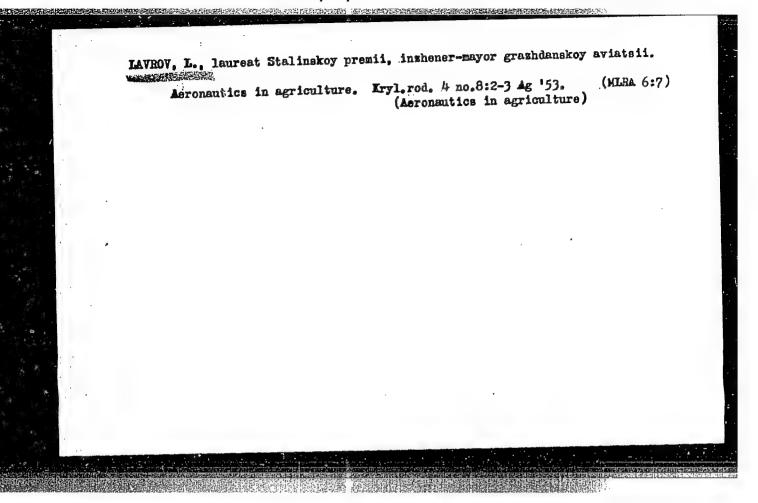


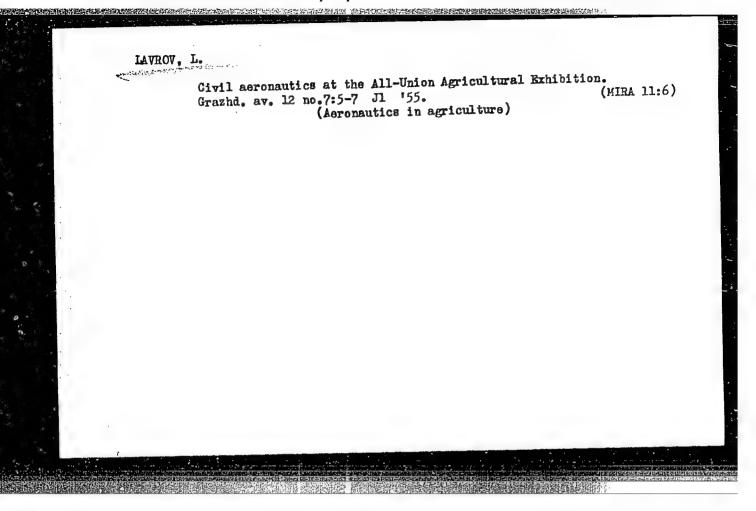
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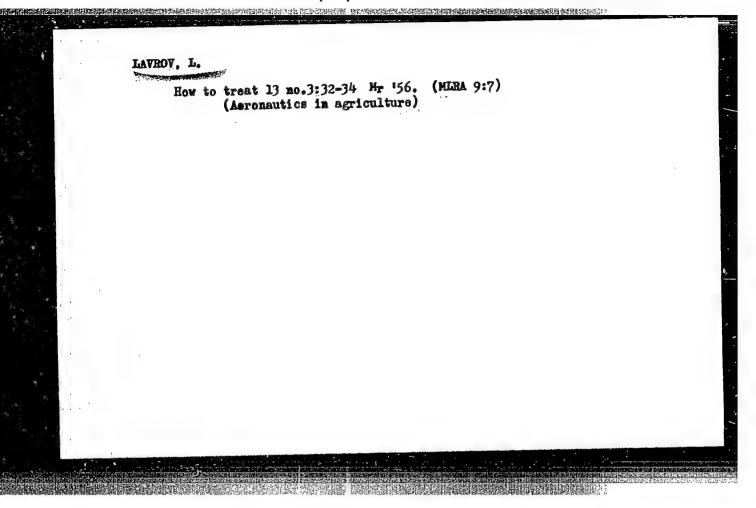
LAVROV, K.P.

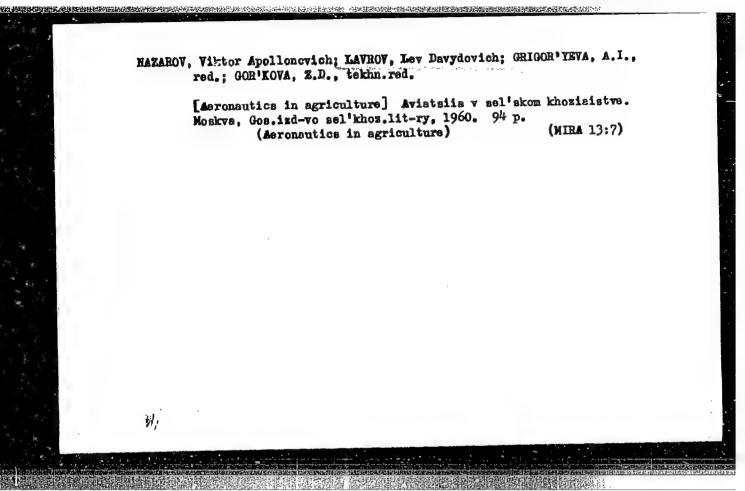
Morskoi transport na russkom Dal'nem Vostoke. / Sea transport in the Russian Fer East/. (Ekon. vestnik Man'chzhurii, 1924, no. 25,p.16-12).

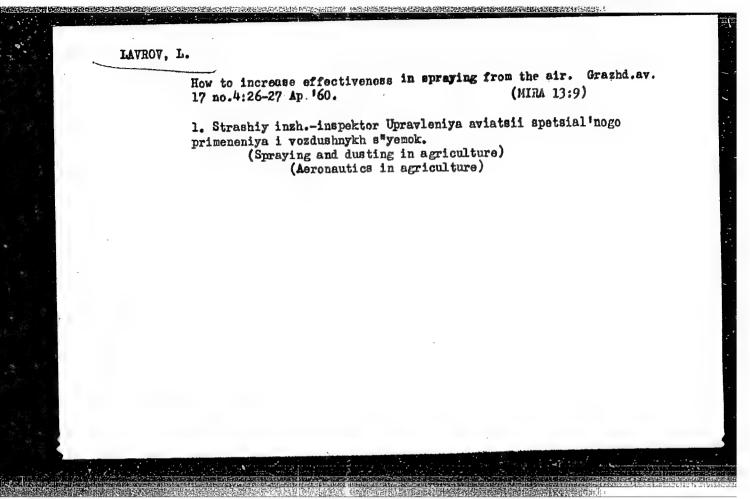
SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

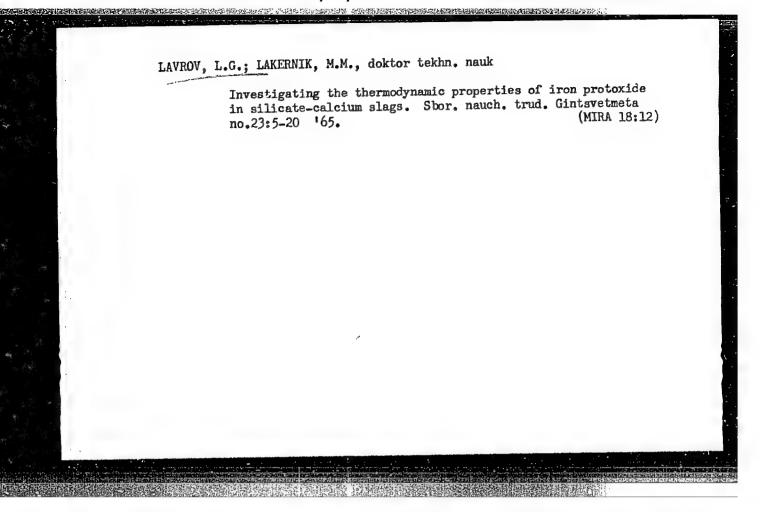












SOV/136-59-6-6/24 AUTHORS:

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TITLE: Electrothermic Treatment of the Berezovskiy Complex

Concentrate (Carlot (Elektrotermicheskaya pererabotka

Berezovskogo kollektivnogo kontsentrata)

PERIODICAL: Tsvetnyye metally, 1959, Nr 6, pp 32 - 38 (USSR)

ABSTRACT: The concentrate used contains 3.5% copper, 7% lead, 22% zinc, 20% iron, 30% sulphur and 7% silica.

Laboratory tests showed that it could be successfully melted in a sealed electric furnace. After many tests,

the Irtyshsk Works constructed a furnace for production.

It is a three-phase 3 000 kW furnace with internal diameter 3 600 mm and hearth area 10 m2 (Figure 1). Graphite electrodes, water cooled in the arch, are used. The hearth and wall linings are chrome magnesite and

the metallic furnace case is sprayed with water.

Melting occurs with 4.5 - 7.5 thousand amps. The gases are sharply cooled in a settling chamber (Figure 2)

where zinc and lead condense. The furnace is loaded

mechanically through a bunker (Figure 3). Card1/3

mechanically through a bunker (Figure 3). The temperature under the arch is 1 100 - 1 150 °C and the

SOV/136-59-6-6/24

PARTIE EN PERSONAL PROPERTY DE LA CONTRACTOR DE LA CONTRA

Electrothermic Treatment cof the Berezovskiy Cosplex

slag temperature 1 300 - 1 350 °C. The furnace is sealed and the pressure regulated automatically by an oil regulator type RDNBI-100. It has been shown that this furnace can be used for complex polymetallic products inaccessible by ordinary metallurgical processes. During the process, 20% lime is added to obtain a slag with the correct properties. The slag contains 0.18% Cu, 0.15% Pb, 2.4% Zn, 14% Fe, 33% SiO₂ and 36.4% CuO. The crude metal contains 20% Cu, 6% Pb, 2.4% Zn, 40% Fe, 22% S. Enough coke is added to produce a gas containing 90% CO which has the correct reducing conditions. The dust obtained from the settling chamber consists of 20% Pb, 70% Zn, 4% S, 0.3% Cd, 0.4% Cu, 0.8% Fe, 1.5% SiO₂ and 0.75% CaO. The advantages of the process are that it is easy to mechanise and good hygienic working conditions are maintained. The disadvantages are that

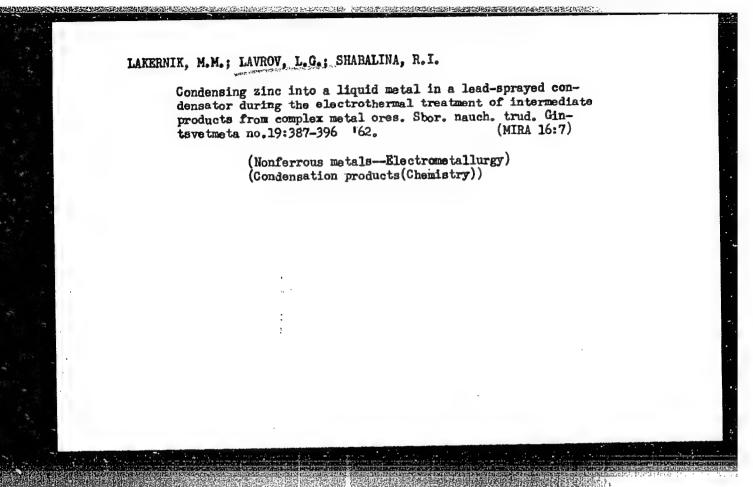
Card2/3

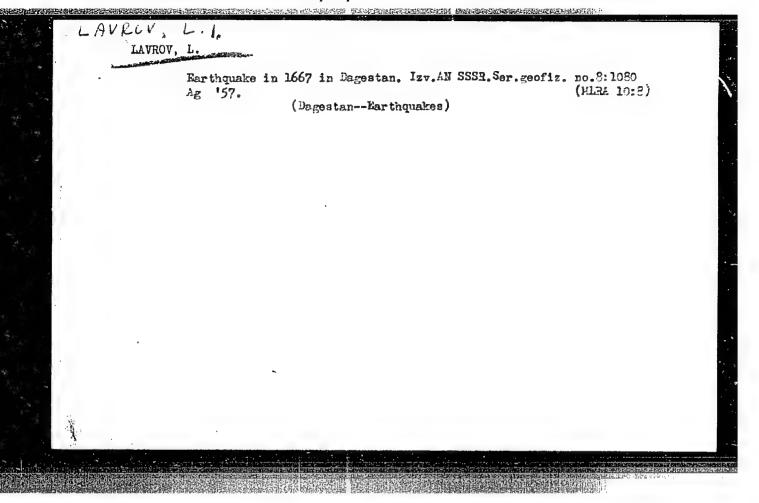
SQV/136-59-6-6/24

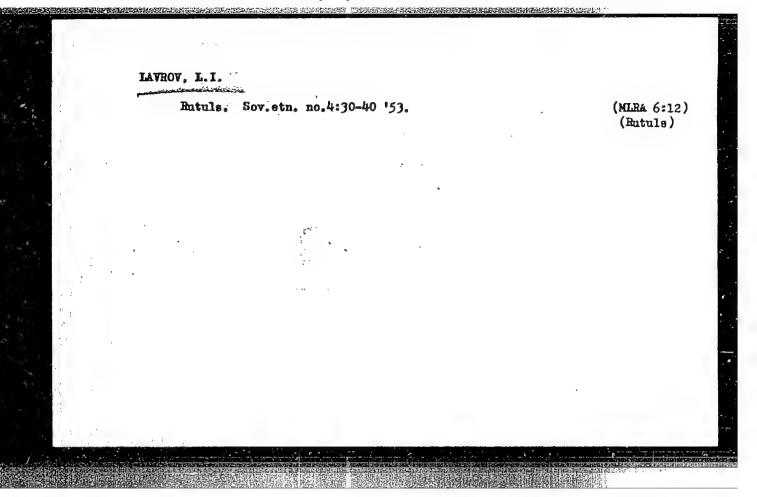
Electrothermic Treatment of the Berezovskiy Complex Concentrate

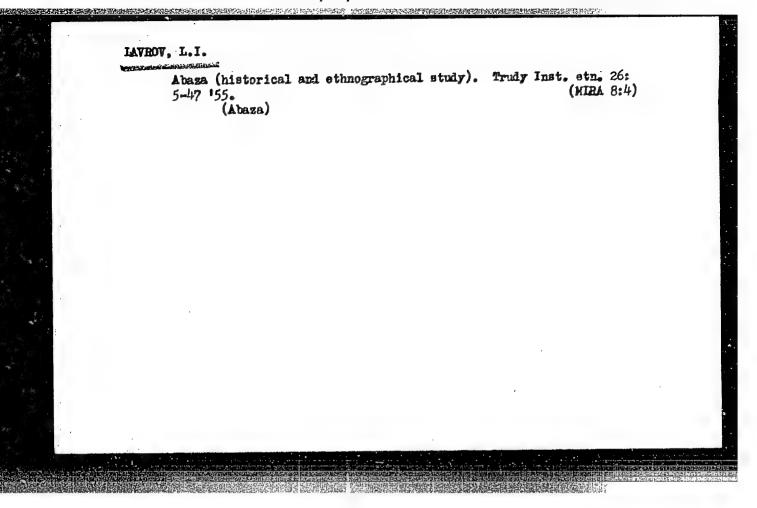
the gas is high in carbon monoxide and that the process has a high energy capacity which means it can only be used where cheap electrical energy is available. There are 7 figures.

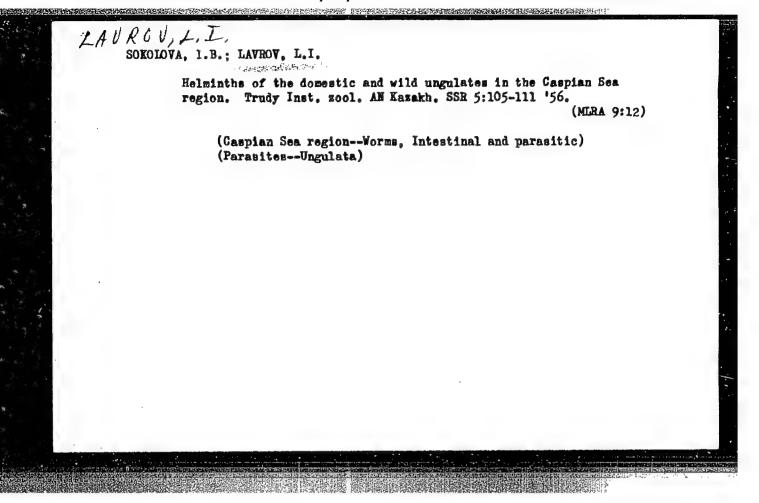
Card 3/3











LAVROV, L. I.

USSR/Zooparasitology - Parasitic Worms.

G-2

Abs Jour

: Ref Zhur - Biol., No 6, 1958, 24370

Author

: Boev, S.N., Lavrov, L.I., Zakhryalov, Ya.N., Maksimova,

A.P.

Inst

: -

Title

: Data on Helminthofauna of Wild Ruminant Animals of Western

Tyan-Shan.

Orig Pub

: Tr. In-ta zool. AN KazSSR, 1957, 7, 151-155

Abstract

: In wild ruminants of the Aksu-Dzhebaglin game reserve, 28 species of helminths were found, among them 25 in arkhar (3 specimens were dissected), 18 in Siberian ibex (9), 4 species in roe deer (3). In Siberian ibex, Marshallagia mongolica, Marchalus raillieti and Skrjabinems were identified for the first ime; in roe deer-- N. oiratianus; in arkhar, N. abnormalis and Ostertagia trifurcata. The scarcity of helminthofauna in arkhar and roe deer, the low intensity of infection and almost total absence of

Card 1/2

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USSR/Zooparasitology - Parasitic Worms.

G-2

Abs Jour

: Ref Zhur - Biol., No 6, 1958, 24370

cestodes is related to climatic factors. At present, 32 species of helminths altogether are known in arkhar, 27 in Siberian ibex, and 20 in roe deer. A high degree of infection by skreben is noted in all 3 species of ungulates.

Card 2/2

